

**TRANSMITTAL
FORM**

*(To be used for all correspondence
after initial filing)*

Application Number	10/664,808
Filing Date	September 17, 2003
First Named Inventor	Ajay V. Patwardhan
Art Unit	2838
Examiner Name	
Attorney Docket No.	130209.505

ENCLOSURES (check all that apply)

<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment/Response <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input type="checkbox"/> Information Disclosure Statement; Form PTO-1449 <input type="checkbox"/> Cited References <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts under 37 C.F.R. 1.52 or 1.53 <input type="checkbox"/> Response to Missing Parts/Incomplete Application	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Request for Corrected Filing Receipt <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input checked="" type="checkbox"/> Power of Attorney, Revocation, Change of Correspondence Address <input type="checkbox"/> Declaration <input checked="" type="checkbox"/> Statement under 37 CFR 3.73(b) <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund	<input type="checkbox"/> CD(s), Number of CD(s) _____ <input type="checkbox"/> After Allowance Communication to Group <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Return Receipt Postcard <input type="checkbox"/> Additional Enclosure(s) (please identify below): <hr/> <hr/> <hr/> <hr/>
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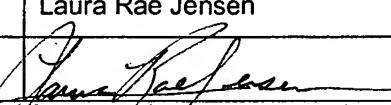
Remarks

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Individual Name	Frank Abramonte	Customer Number 00500
Signature		
Date	April 27, 2004	

CERTIFICATE OF TRANSMISSION/MAILING

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.

Typed or printed name	Laura Rae Jensen	
Signature		Date: April 27, 2004

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C.122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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O F F I C E

ELECTION AND POWER OF ATTORNEY and CORRESPONDENCE ADDRESS INDICATION FORM	<p style="text-align: center;">EXPRESS MAIL NO. EV348170231US PTO/SB/81 (06-03)</p> <p style="text-align: center;">Approved for use through 11/30/2005. OMB 0651-0035 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE</p> <p style="text-align: center;">Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Application Number</td> <td style="width: 80%;">10/664,808</td> </tr> <tr> <td>Filing Date</td> <td>September 17, 2003</td> </tr> <tr> <td>First Named Inventor</td> <td>Ajay V. Patwardhan</td> </tr> <tr> <td>Title</td> <td>POWER CONVERTER ARCHITECTURE EMPLOYING AT LEAST ONE CAPACITOR ACROSS A DC BUS</td> </tr> <tr> <td>Art Unit</td> <td></td> </tr> <tr> <td>Examiner Name</td> <td></td> </tr> <tr> <td>Attorney Docket Number</td> <td>130209.505</td> </tr> </table>	Application Number	10/664,808	Filing Date	September 17, 2003	First Named Inventor	Ajay V. Patwardhan	Title	POWER CONVERTER ARCHITECTURE EMPLOYING AT LEAST ONE CAPACITOR ACROSS A DC BUS	Art Unit		Examiner Name		Attorney Docket Number	130209.505
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Art Unit															
Examiner Name															
Attorney Docket Number	130209.505														

I hereby appoint:

Practitioners at Seed IP Law Group PLLC, Customer Number: **00500**

OR

Practitioner(s) named below:

Name	Registration Number

as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith.

Please recognize or change the correspondence address for the above-identified application to:

The above-mentioned Customer Number.

OR

The address associated with Customer Number:

OR

<input type="checkbox"/> Firm or Individual Name			
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Country			
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I am the:

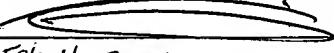
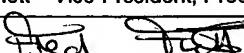
Applicant/Inventor.

Assignee of record of the entire interest. See 37 CFR 3.71.

Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96).

As assignee of record of the entire interest I/we hereby elect, under 37 C.F.R. § 3.71, to prosecute the application to the exclusion of the inventor(s).

SIGNATURE of Applicant or Assignee of Record

Name	Noordin S.K. Nanji – Corporate Secretary
Signature	
Date	Feb 16, 2004
Name	Fred Flett – Vice-President, Product Development
Signature	
Date	02/06/04

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required.
Submit multiple forms if more than one signature is required, see below*.

*Total of 1 forms are submitted.

STATEMENT UNDER 37 CFR 3.73(b)Applicant/Patent Owner: Ajay V. Patwardhan et al.Application No./Patent No.: 10/664,808 Filed/Issue Date: September 17, 2003Entitled: **POWER CONVERTER ARCHITECTURE EMPLOYING AT LEAST ONE CAPACITOR ACROSS A DC BUS**

Ballard Power Systems Corporation, a **corporation**
 (Name of Assignee) (Type of Assignee, e.g., corporation, partnership,
 university, government agency, etc.)

states that it is:

1. the assignee of the entire right, title, and interest; or
2. an assignee of an undivided part interest

in the patent application/patent identified above by virtue of either:

A. An assignment from the inventor(s) of the patent application/patent identified above.
 The assignment was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

OR

B. A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:

1. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached

 Additional documents in the chain of title are listed on a supplemental sheet. Copies of assignments or other documents in the chain of title are attached.

[NOTE: A separate copy (*i.e.*, the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.8.]

The undersigned (whose titles are supplied below) are authorized to act on behalf of the assignee.

Feb 16, 2004

Date

Noordin S.K. Nanji

Typed or printed name

Telephone Number

Signature

Corporate Secretary

Title

14-01-04

Date

Fred Flett

Typed or printed name

Signature

313.583.5980

Telephone Number

Vice-President, Product Development

Title

ASSIGNMENT

WHEREAS, we, Ajay V. Patwardhan, Douglas K. Maly, Sayeed Ahmed and Fred Flett (hereinafter referred to as ASSIGNORS), having mailing addresses of 46213 Polo, Canton, Michigan 48187; 870 Glenullin Drive, Canton, Michigan 48187; #201 – 5634 Fordham Circle, Canton, Michigan 48187; and 4031 Pine Tree Trail, Bloomfield, Michigan 48302, respectively, are the joint inventors of an invention entitled “POWER CONVERTER ARCHITECTURE EMPLOYING AT LEAST ONE CAPACITOR ACROSS A DC BUS,” as described and claimed in the specification for which an application for United States letters patent was filed on September 17, 2003 and assigned Application No. 10/664,808. This application claims the benefit of U.S. Provisional Application No. 60/471,387, filed May 16, 2003.

WHEREAS, Ballard Power Systems Corporation (hereinafter referred to as ASSIGNEE), a corporation of the State of Delaware having a place of business at 15001 Commerce Drive North, Dearborn, Michigan 48120, is desirous of acquiring the entire right, title and interest in and to the invention and in and to any letters patent that may be granted therefor in the United States and in any and all foreign countries;

NOW, THEREFORE, in exchange for good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNORS hereby sell, assign and transfer unto said ASSIGNEE the entire right, title and interest in and to said invention, said application and any and all letters patent which may be granted for said invention in the United States of America and its territorial possessions and in any and all foreign countries, and in any and all divisions, reissues and continuations thereof, including the right to file foreign applications directly in the name of ASSIGNEE and to claim priority rights deriving from said United States application to which said foreign applications are entitled by virtue of international convention, treaty or otherwise, said invention, application and all letters patent on said invention to be held and enjoyed by ASSIGNEE and its successors and assigns as fully and entirely as the same would have been held and enjoyed by ASSIGNORS had this assignment, transfer and sale not been made. ASSIGNORS hereby authorize and request the Commissioner of Patents and Trademarks to issue all letters patent on said invention to ASSIGNEE. ASSIGNORS agree to execute all instruments and documents required for the making and prosecution of applications for United

States and foreign letters patent on said invention, for litigation regarding letters patent, or for the purpose of protecting title to said invention or letters patent therefor.

In Jan 04
Date

Ajay V. Patwardhan
Ajay V. Patwardhan

State of Michigan)
County of Wayne A.V.P.)
ss.
Patwardhan)

I certify that I know or have satisfactory evidence that Ajay V. Patwardhan is the person who appeared before me, and said person acknowledged that he signed this instrument and acknowledged it to be his free and voluntary act for the uses and purposes mentioned in the instrument.

Dated January 14, 2001
Signature of Artricia Garrison
Notary Public
Printed Name Artricia Garrison
My appointment expires 1/23/06

ARTRICIA GARRISON
NOTARY PUBLIC STATE OF MI
MY COMMISSION EXPIRES JAN 23, 2006

14JAN04
Date

Douglas K. Maly
Douglas K. Maly

State of MI)
ss.
County of Wayne)

I certify that I know or have satisfactory evidence that Douglas K. Maly is the person who appeared before me, and said person acknowledged that he signed this instrument and acknowledged it to be his free and voluntary act for the uses and purposes mentioned in the instrument.

Dated January 14, 2004
Signature of AF
Notary Public
Printed Name Africene Garrison
My appointment expires 1/23/06

AFRICENE GARRISON
NOTARY PUBLIC WAYNE CO., MI
MY COMMISSION EXPIRES Jan 23, 2006

10th Jan, 04

Date

State of Michigan)

Sayeed

Sayeed Ahmed

County of Wayne)

ss.

I certify that I know or have satisfactory evidence that Sayeed Ahmed is the person who appeared before me, and said person acknowledged that he signed this instrument and acknowledged it to be his free and voluntary act for the uses and purposes mentioned in the instrument.

Dated January 14, 2004

Signature of _____
Notary Public Agg

Printed Name Artricia Garrison

My appointment expires 1/2/06

ARTRICIA GARRISON
NOTARY PUBLIC STATE OF MI
NOT COMMISSION EXPIRES Jan 22, 2006

02/06/09

Date

Fred Flett

State of Michigan)

ss.

County of Oakland)

I certify that I know or have satisfactory evidence that Fred Flett is the person who appeared before me, and said person acknowledged that he signed this instrument and acknowledged it to be his free and voluntary act for the uses and purposes mentioned in the instrument.

Dated Feb 6 2004

Signature of

Notary Public

Printed Name

My appointment expires



ARTHUR J. CHABON

Notary Public

State of Michigan

County of Oakland

My Commission Expires March 24, 2005